



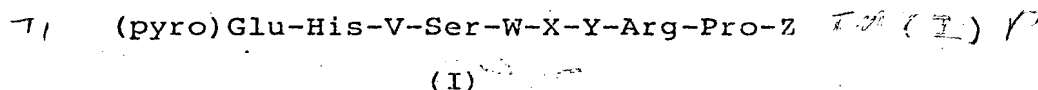
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5 **NONAPEPTIDE AND DECAPEPTIDE DERIVATIVES OF
LUTEINIZING HORMONE/RELEASING HORMONE**

Abstract of the Disclosure

Nonapeptide and decapeptide analogs of LH-RH of the
formula ps

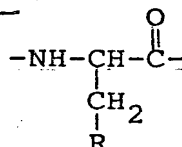


and the pharmaceutically acceptable salts thereof wherein:

V is tryptophyl, phenylalanyl or 3-(1-naphthyl)- L -
alanyl;

W is tyrosyl, phenylalanyl or 3-(1-pentafluoro-
phenyl)- L -alanyl;

X is a D -amino acid residue



70010X
wherein R is

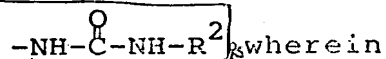
20 (a) a carbocyclic aryl-containing radical selected
from the group consisting of naphthyl, anthryl,
fluorenyl, phenanthryl, biphenyl, benzhydryl and phenyl
substituted with three or more straight chain lower alkyl
groups; or

(b) a saturated carbocyclic radical selected from
the group consisting of cyclohexyl substituted with three
or more straight chain lower alkyl groups, perhydro-
naphthyl, perhydrobiphenyl, perhydro-2,2-diphenylmethyl
and adamantyl;

Y is leucyl, isoleucyl, nor-leucyl or
N-methyl-leucyl;

Z is glycine or NH-R^1 , wherein

25 R^1 is lower alkyl, cycloalkyl, fluoro lower alkyl or



R^2 is hydrogen or lower alkyl,

are disclosed. These compounds exhibit potent LH-RH
agonist properties.

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P3201 06/15/79 047661

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108.00CH